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	Application No.	Applicant(s)	
	09/903,330	MITRA, PRADIP	
Notice of Allowability	Examiner	Art Unit	
	M. R. Sedighian	2633	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	s application. If not include ation will be mailed in due	ed course. THIS
1. This communication is responsive to <u>10/26/04</u> .			
2. ⊠ The allowed claim(s) is/are <u>1-50</u> .			
3. $igotimes$ The drawings filed on <u>11 July 2001</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	D	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a re ENT of this application.	eply complying with the red	quirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINes reason(s) why the oath or dec	IER'S AMENDMENT or N laration is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (P s Amendment / Comment or in the .84(c)) should be written on the dr ne header according to 37 CFR 1.	ne Office action of awings in the front (not the 121(d).	·
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summ Paper No./Mail	Date	O-152)
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's State 9. □ Other	ement of Reasons for Allo M. R. SEDIGH PRIMARY EXAM	iolighian

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1. This communication is responsive to applicant's 10/26/2004 after final amendments in the application of Pradip Mitra filed 7/11/2001. Claims 1-50 are now pending.

2. The following is an examiner's statement of reasons for allowance:

As to claims 1, 21, and 36, the prior arts of Goossen et al. (US Patent No: 5,949,561), Spears (US Patent No: 5,455,421), and Coldren et al. (Patent Application Publication No: 2002/0009258) do not fairly teach or suggest a high bandwidth wavelength receiver for use in a WDM system, wherein the receiver comprises of a plurality of photodetectors to receive a plurality of wavelength channels, and wherein each individual one of the photodetectors comprises a plurality of first elongate elements for absorbing a respective one of the plurality of wavelength channels and thereby creating electrical carriers, the plurality of first elongate elements forming a first diffraction grating for the respective one of the plurality of wavelength channels, and a plurality of second elongate elements for absorbing the respective one of the plurality of wavelength channels and thereby creating electrical carriers, the plurality of second elongate elements forming a second diffraction grating for the respective one of the plurality of wavelength channels, a period of the second diffraction grating being equal to a period of the first diffraction grating, the plurality of second elongate elements being substantially perpendicular to and intersecting the plurality of first elongate elements so as to form a twodimensional diffraction grating, in addition with other limitations recited in each of the claims 1, 21, and 36.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Goossen et al. (US Patent No: 5,949,561) is cited to a plurality of photodetectors (col. 5, lines 15-20 and 2, fig. 4) to receive a plurality of wavelength channels (col. 5, lines 40-45), wherein each individual one of the wavelength channels being absorbed by one of the respective photodetectors (col. 5, lines 42, 45), and each individual one of the photodetectors outputting a portion of a respective wavelength channel based on an absorbed respective one of the wavelength channels (col. 5, lines 16-21).

Spears (US Patent No: 5,455,421) is cited to show a photodetector for detecting optical radiation at a predetermined wavelength (col. 2, lines 47-50), wherein the photodetector is comprised of a diffractive resonant optical cavity (col. 2, lines 48-64).

Coldren et al. (Patent Application Publication No: 2002/0009258) is cited to show optical detectors that comprise of resonant cavity photodetectors having a double-absorber design (page 8, claims 1-3).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. R. Sedighian whose telephone number is (571) 272-3034. The examiner can normally be reached on M-F (from 9 AM to 5 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. R. SEDIGHIAN
PRIMARY EXAMINER